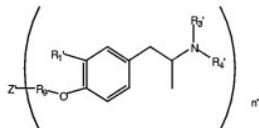


Claim Amendments

Claims 1-24 (canceled).

25. (previously presented) A method for determining methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine in a sample suspected of containing methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine, said method comprising:

- (a) providing in combination in a medium:
  - (i) said sample,
  - (ii) an antibody for methylenedioxymethamphetamine, and/or
  - (iii) an antibody for methylenedioxymethamphetamine, and/or
  - (iv) an antibody for methylenedioxymethamphetamine, and
  - (v) a compound of the formula:



wherein:

R<sup>1</sup>, is H, or methyl or ethyl

R<sup>3</sup>, is H,

R<sup>4</sup>, is H, or methyl or ethyl,

R<sup>9</sup> is -(CH<sub>2</sub>)<sub>n</sub>C(O),

Z' is an enzyme,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said enzyme divided by about 500; and

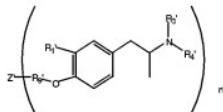
(b) examining said medium for the presence of a complex comprising said methylenedioxymethamphetamine and said antibody for methylenedioxymethamphetamine and/or a complex of said methylenedioxymethamphetamine and said antibody for methylenedioxymethamphetamine and/or a complex of said methylenedioxymethamphetamine and

said antibody for methylenedioxymethamphetamine, the presence thereof indicating the presence of said methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine in said sample.

Claim 26. (canceled).

27. (previously presented) A method for determining methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine in a sample suspected of containing methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine, said method comprising:

- (a) providing in combination in a medium:
  - (i) said sample,
  - (ii) a conjugate of an enzyme and a methylenedioxymethamphetamine analog and a conjugate of an enzyme and a methylenedioxymethamphetamine analog and a conjugate of an enzyme and a methylenedioxymethamphetamine analog,
  - (iii) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

R<sup>1</sup> is H, or methyl or ethyl

R<sup>3</sup> is H,

R<sup>4</sup> is H,

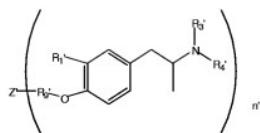
R<sup>9</sup> is -(CH<sub>2</sub>)<sub>n</sub>C(O),

Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

- (iv) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

$\text{R}^{1\prime}$  is H, or methyl or ethyl

$\text{R}^{3\prime}$  is H,

$\text{R}^{4\prime}$  is methyl,

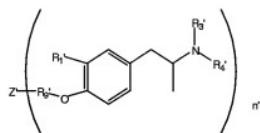
$\text{R}^{9\prime}$  is  $-(\text{CH}_2)_n\text{C}(\text{O})$ ,

$\text{Z}'$  is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

(v) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

$\text{R}^{1\prime}$  is H, or methyl or ethyl

$\text{R}^{3\prime}$  is H,

$\text{R}^{4\prime}$  is ethyl,

$\text{R}^{9\prime}$  is  $-(\text{CH}_2)_n\text{C}(\text{O})$ ,

$\text{Z}'$  is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

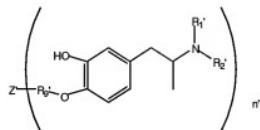
(b) examining said medium for the presence of a complex comprising said methylenedioxymethamphetamine and said antibody for methylenedioxymethamphetamine and a complex of said methylenedioxymethamphetamine and said antibody for

methylenedioxymethamphetamine and a complex of said methylenedioxymethamphetamine and said antibody for methylenedioxymethamphetamine, the presence thereof indicating the presence of said methylenedioxymethamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxymethamphetamine in said sample.

Claims 28-29 (canceled).

30. (previously presented) A kit comprising in packaged combination:

- (i) an antibody for methylenedioxymethamphetamine,
- (ii) an antibody for methylenedioxymethamphetamine, and/or
- (iii) an antibody for methylenedioxymethamphetamine, and
- (iv) a compound of the formula:



wherein:

R<sup>1</sup>, is H,

R<sup>2</sup>, is H, or methyl or ethyl,

R<sup>9</sup>, is -(CH<sub>2</sub>)<sub>n</sub>C(O),

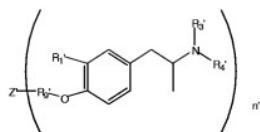
Z' is an enzyme,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said enzyme divided by about 500.

31. (previously presented) A kit comprising in packaged combination:

- (i) a conjugate of an enzyme and a methylenedioxymethamphetamine analog and/or a conjugate of an enzyme and a methylenedioxymethamphetamine analog, and/or a conjugate of an enzyme and a methylenedioxymethamphetamine analog, and
- (ii) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

$\text{R}^{1\text{b}}$  is H, or methyl or ethyl

$\text{R}^{3\text{b}}$  is H,

$\text{R}^{4\text{b}}$  is H,

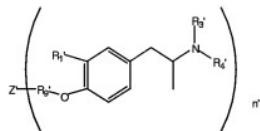
$\text{R}^{9\text{b}}$  is  $-(\text{CH}_2)_n\text{C}(\text{O})$ ,

$\text{Z}'$  is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

(iii) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

$\text{R}^{1\text{b}}$  is H, or methyl or ethyl

$\text{R}^{3\text{b}}$  is H,

$\text{R}^{4\text{b}}$  is methyl,

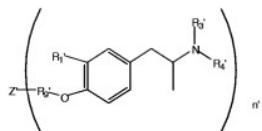
$\text{R}^{9\text{b}}$  is  $-(\text{CH}_2)_n\text{C}(\text{O})$ ,

$\text{Z}'$  is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500, and

(iv) an antibody for methylenedioxymethamphetamine, said antibody being raised against a compound of the formula:



wherein:

R<sup>1</sup>, is H, or methyl or ethyl

R<sup>3</sup>, is H,

R<sup>4</sup>, is ethyl,

R<sup>9</sup>, is -(CH<sub>2</sub>)<sub>n</sub>C(O),

Z' is a protein immunogenic carrier in or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500.

Claim 32 (canceled).